



The Shock Absorber Handbook

By John C. Dixon

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This second edition of the Shock Absorber Handbook (first edition published in 1999) remains the only English-language book devoted to the subject. Comprehensive coverage of design, testing, installation, and use of the damper has led to the book's acceptance as the authoritative text on the automotive applications of shock absorbers. In this edition, the author presents a thorough revision of his book, bringing it completely up to date. There are numerous detail improvements and extensive new material has been added, particularly on the many varieties of valve design in the conventional hydraulic damper, and on modern developments such as electrorheological and magnetorheological dampers. The text is generously illustrated throughout with numerous diagrams and photographs.

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Editorial Review

From the Back Cover

Every one of the many millions of cars manufactured annually worldwide uses shock absorbers, otherwise known as dampers. These form a vital part of the suspension system of any vehicle, essential for optimizing road holding, performance and safety.

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"The Shock Absorber Handbook, 2nd Edition" provides a thorough treatment of the issues surrounding the design and selection of shock absorbers. It is an invaluable handbook for those working in industry, as well as a principal reference text for students of mechanical and automotive engineering.

About the Author

Dr John C. Dixon, Eur. Ing., M.A., Ph.D., C.Eng, C.Phys, FIMechE, FRAeS, MinstP, MIET, is a Senior Lecturer at the Open University. He has extensive experience in vehicle dynamics, including shock absorber design and testing for leading racing teams. His previous books include *"Tires, Suspension and Handling"* and *"The High Performance Two Stroke Engine"*.

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